



Docket Number: 015065-0359295

*IFW*  
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of

HEINZ P. VOLLMERS, et al.

Group Art Unit: 1645

Application No.: 10/579,290

Examiner: To be assigned

Filed: July 12, 2006

Confirmation No.: 7070

For: ADENOCARCINOMA SPECIFIC ANTIBODY SAM-6, AND USES THEREOF

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicants respectfully request the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicants with the next Office communication to indicate that the reference(s) has been considered, per MPEP § 609.

This Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits in the present application. No certification or fee is required.

A copy of the International Search Report is attached for the Examiner's information. According to the Notification of Acceptance in this file, copies of the references are already in the U.S. Patent Office file. For convenience, copies of these references are also attached.

Please note that for Publication No. WO 02/02641 A1, identified as reference number "XR" on Form PTO-1449, a compact disc (CD) that has the sequence listing in compliance with 37 C.F.R. 1.52(e) is enclosed.

Respectfully Submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP



---

Robert M. Bedgood

Registration Number 43488

Customer Number: 27500

Date: March 14, 2007

Telephone: (619) 234-5000

Facsimile: (858) 509-4010

12255 El Camino Real

Suite 300

San Diego, CA 92130



FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
( FORM PAT-1449)  
Patent and Trademark Office

Atty.  
Dkt. No.

M#

Client Ref.

015065-0359295

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: Vollmers, et al.

Appln. No.: 10/579,290

Filing Date: July 12, 2006

Date: March 14, 2007

P  
a  
g  
e

1

of

5

Examiner: TBA

Group Art Unit: 1645

**U.S. PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR						
	BR	2005/0123571 A1	06/2005	Rossini, et al.	424	277.1	
	CR	5,610,280	03/1997	Brandt, et al.	530	387.5	
	DR	5,639,863	06/1997	Dan	530	388.8	
	ER	5,763,224	06/1998	Caras, et al.	435	69.6	
	FR	6,677,442 B1	1/2004	Wang, et al.	536	23.2	
	GR	6,995,240 B1	02/2006	Panayi, et al.	530	350	
	HR	7,049,132 B1	05/2006	Lee	435	320.1	
	IR						
	JR						

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/YYYY	Country	Inventor Name		English Abstract		Translation Readily Available	
							Enclosed	No	Enclose	No
	KR									
	LR	41 07 154 A1	04/1992	DE	Brandt, et al. (German)					
	MR	102 30 516 A1	01/2004	DE	Müller-Hermelink, et al.					
	NR	692 12 671 T2	03/1997	DE	Weiss, et al. (German)					
	OR	692 29 110 T2	11/1999	DE	Gram, et al. (German)					
	PR	695 27 975 T2	03/2003	DE	Ellis, et al. (German)					
	QR	1 106 183 A2	06/2001	EP	Fendly					
	RR	1 141 019 B1	04/2004	EP	Vollmers et al. (German)					

	SR	00/012562	03/2000	WO	Adams, et al.					
	TR	00/37489 A3	06/2000	WO	Vollmers et al. (German)					
	UR	00/37489A2	06/2000	WO	Vollmers et al. (German)					
	VR	01/62932 A1	08/2001	WO	Deshpande, et al.					
	WR	01/83560 A1	11/2001	WO	Zhou, et al.					
	XR	02/02641 A1	01/2002	WO	Cambridge Antibody Tech., Vaughn Tristan					
	YR	02/084277 A1	10/2002	WO	Luo					
	ZR	02/12502 A2	02/2002	WO	Giles-Komar, et al.					
	AAR	03/011907 A3	02/2003	WO	Muller-Hermelink et al.					
	BBR	2003/076472 A2	09/2003	WO	Vollmers, et al.					
	CCR	2003/076472 A3	09/2003	WO	Vollmers, et al.					
	DDR	2004/005351 A2	01/2004	WO	Mueller- Hermelink, et al.					
	EER	2004/020999A1	03/2004	WO	Arap, et al.					
	FFR	2004/081027 A2	09/2004	WO	Mueller- Hermelink et al.					
	GGR	2004/081027 A3	09/2004	WO	Mueller- Hermelink et al.					
	HHR	2005/001052 A2	01/2005	WO	Rossini, et al.					
	IIR	2005/045428 A2	05/2005	WO	Lee, et al.					
	JJR	2005/047332 A1	05/2005	WO	Vollmers, et al.					
	KKR	2005/065418 A2	07/2005	WO	Pasqualini, et al.					
	LLR	2005/085862 A1	09/2005	WO	Charles, et al.					
	MMR	2005/092922 A2	10/2005	WO	Vollmers et al.					
	NNR	2005/092922 A3	10/2005	WO	Vollmers et al.					
	OOR	2005/094159 A2	10/2005	WO	Vollmers et al.					
	PPR	97/02479	01/1997	WO	Garen					
	QQR	97/13844 A1	04/1997	WO	Thomson et al.					
	RRR	99/28461	06/1999	WO	Noteborn, et al.	(equivalent to CA 2,312,007 06/2000)				
	SSR	99/53051	10/1999	WO	Dumas Milne Edwards, et al					
	TTR	99/65935 A2	12/1999	WO	Chiodi					
	UUR									
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)										
	VVR									

	WWR	Berger, C.L., et al., A Lymphocyte Cell Surface Heat Shock Protein Homologous to the Endoplasmic Reticulum Chaperone, Immunoglobulin Heavy Chain Binding Protein BIP, Int. J. Cancer, 71:1077-1085 (1997)				
	XXR	Bjorge et al., Complement-Regulatory Proteins in Ovarian Malignancies, Int. J. Cancer, 70:14-25 (1997)				
	YYR	Brandlein et al., "Natural IgM Antibodies and Immunosurveillance Mechanisms Against Epithelial Cancer Cells in Humans," Cancer Research, 63: 7995-8005, 15 November 2003.				
	ZZR	Brändlein et al., Characterization of Five New Fully Human Monoclonal IgM Antibodies Isolated from Carcinoma Patients, Proceedings of the Annual Meeting of the American Association for Cancer Research 43:970, March 2002 (Abstract)				
	AAAR	Brändlein et al., Human Monoclonal IgM Antibodies with Apoptotic Activity isolated from Cancer Patients, Human Antibodies 11:107-119, 2002				
	BBBR	Brändlein, S., et al., CFR-1 Receptor as Target for Tumor-specific Apoptosis Induced by the Natural Human Monoclonal Antibody PAM-1, Oncology Reports, 11:777-784 (2004)				
	CCCR	Brändlein, S., et al., Cysteine-rich Fibroblast Growth Factor Receptor 1, a New Marker for Precancerous Epithelial Lesions Defined by the Human Monoclonal Antibody PAM-1, Cancer Research, 63:2052-2061 (2003)				
	DDDR	Brändlein, S., et al., PAM-1, a Natural Human IgM Antibody as New Tool for Detection of Breast and Prostate Precursors, Human Antibodies, 13:97-104 (2004)				
	EEER	Chen, G., et al., Protein Profiles Associated With Survival in Lung Adenocarcinoma, <a href="http://www.pnas.org/cgi/doi/10.1073/pnas.2233850100">www.pnas.org/cgi/doi/10.1073/pnas.2233850100</a> pp. 1-6 (2003)				
	FFFR	Database entry AAB02178 dated June 11, 1996				
	GGGR	Faller et al., HAB-1, a New Heteromyeloma for Continuous Production of Human Monoclonal Antibodies, Br. J. Cancer 62:595-598 (1990)				
	HHHR	Gonatas et al., MG-160, A Membrane Sialoglycoprotein of the Medial Cisternae of the Rat Golgi Apparatus, Binds Basic Fibroblast Growth Factor and Exhibits a High level of Sequence Identity to a Chicken Fibroblast Growth Factor Receptor, J. Cell Science 108:457-467, 1995.				
	IIIR	Grossman, H.B., Natural Antibody to a Human Bladder Carcinoma Cell Line, Cancer Immunol. Immunother. 13:89-92 (1982)				
	JJJR	Hensel et al., A New Variant of Cystein-Rich FGF Receptor (CFR-1) Specifically Expressed on Tumor Cells, Proceedings of the American Association for Cancer Research 41:698 (abstract 4438), March 2000.				
	KKKR	Hensel et al., A Novel Proliferation-associated Variant of CFR-1 Defined by a Human Monoclonal Antibody, Laboratory Investigation 81:1097-1108, 2001.				
	LLLR	Hensel et al., Characterization of Glycosylphosphatidylinositol-linked Molecule CD55/Decay-accelerating Factor as the Receptor for Antibody SC-1-induced Apoptosis, Cancer Research 59:5299-5306, 1999.				

	MMMR	Hensel et al., Mitogenic Autoantibodies in Helicobacter pylori-Associated Stomach Cancerogenesis, International Journal of Cancer 81:229-235, 1999.				
	NNNR	Hensel, F., et al., "Regulation of the new coexpressed CD55 (decay-accelerating factor) receptor on stomach carcinoma cells involved in antibody SC-1-induced apoptosis", Laboratory Investigation, 81(11):1553-1563 (2001)				
	OOOR	Huang et al., Sulindac Sulfide-induced Apoptosis Involves Death Receptor 5 and the Caspase 8-dependent Pathway in Human Colon and Prostate Cancer Cells, Cancer Research 61:6918-6924 (2001)				
	PPPR	Iwadate, Y., et al., Molecular Classification and Survival Prediction in Human Gliomas Based on Proteome Analysis, Cancer Research, 64:2496-2501 (2004)				
	QQQR	Jamora, C., et al., Inhibition of Tumor Progression by Suppression of Stress Protein GRP78/BiP Induction in Fibrosarcoma B/C10ME, Proc. Natl. Acad. Sci. USA, 93:7690-7694 (1996)				
	RRRR	Jansson, et al., The Human Repertoire of Antibody Specificities Against Thomsen-Friedenreich and TN-carcinoma-associated antigens as defined by Monoclonal Antibodies, Cancer Immunology 34:294-298, 1992.				
	SSSR	Kamitani, H., et al., Expression of 15-Lipoxygenase by Human Colorectal Carcinoma Caco-2 Cells During Apoptosis and Cell Differentiation, The Journal of Biological Chemistry, 273(34):21569-21577 (1998)				
	TTTR	Lee, A.S., Mammalian Stress Response: Induction of the Glucose-Regulated Protein Family, Current Opinion in Cell Biology, 4:267-273 (1992)				
	UUUR	Little, E., et al., The Glucose-Regulated Proteins (GRP78 and GRP94): Functions, Gene Regulation, and Applications, Critical Reviews In Eukaryotic Gene Expression, 4(1):1-18 (1994)				
	VVVR	Liu et al., Towards Proteome-Wide Production of Monoclonal Antibody by Phage Display, J. Mol. Bio. 315:1063-1073 (2002)				
	WWWRR	Mammalian Gene Collection (MGC) Program Team, "Generation and Initial Analysis of more than 15,000 Full-Length Human and Mouse cDNA Sequences" PNAS USA 99:16,899-16,903 (2002)				
	XXXXR	Masatoshi, K., Antibody CDNA, Abstract JP Publication No. 09098786 0, 04/15/1997				
	YYYYR	Mintz, P.J., et al., Fingerprinting the Circulating Repertoire of Antibodies from Cancer Patients, Nature Biotechnology, 21:57-63 (2003)				
	ZZZR	Misra, U.K., et al., The Role of Grp 78 in $\alpha_2$ -Macroglobulin-Induced Signal Transduction, The Journal of Biological Chemistry, 277(44):42082-42087 (2002)				
	AAAAR	Mourelatos et al., Cloning and Sequence Analysis of the Human MG160, a Fibroblast Growth Factor and E-Selectin Binding Membrane Sialoglycoprotein of the Golgi Apparatus, DNA Cell Biol. 12:1121-1128 (1996)				
	BBBBR	Myung, J-K, et al., Expressional Patterns of Chaperones in Ten Human Tumor Cell Lines, Proteome Science, 2:8:1-21 (2004)				
	CCCCR	Pfaff, M., et al., Human Monoclonal Antibody Against a Tissue Polypeptide Antigen-related Protein from a Patient with a Signet-Ring Cell Carcinoma of the Stomach, Cancer Research, 50:5192-5198 (1990)				
	DDDDR	Pohle et al., Lipoptosis: Tumor Specific Cell Death by Antibody-Induced Intracellular Lipid Accumulation, Cancer Research, 64:11, 3900-3906 (2004)				

EEEEER	Sato, K., et al., Immunotherapy Using Heat-Shock Protein Preparations of Leukemia Cells After Syngenic Bone Marrow Transplantation in Mice, Blood, 98(6):1852-1857 (2001)				
FFFFR	Sugawara, S., et al., Suppression of Stress Protein GRP78 Induction in Tumor B/C10ME Eliminates Resistance to Cell Mediated Cytotoxicity, Cancer Research, 53:6001-6005 (1993)				
GGGGR	Timmermann W., et al., Immuntherapie: ein Antikörper gegen Magenkrebs" Blick 1/1999, Artikel 6, internet page <a href="http://www.uni-wuerzburg.de/blick1999-1/991do6-t.html">http://www.uni-wuerzburg.de/blick1999-1/991do6-t.html</a> .				
HHHHR	Vollmers et al., "Apoptosis of Stomach Carcinoma Cells Induced by a Human Monoclonal Antibody," Cancer 76:550-558 (1995).				
IIIIIR	Vollmers et al., "Human Monoclonal Antibodies from Stomach Carcinoma Patients React with <i>Helicobacter pylori</i> and Stimulate Stomach Cells <i>in vitro</i> ," Cancer 74:1525-1532, 1994.				
JJJJR	Vollmers et al., "SC-1, a Functional Human Monoclonal Antibody against Autologous Stomach Carcinoma Cells," Cancer Res. 49:2471-2476, 1989.				
KKKKR	Vollmers et al., Adjuvant Therapy for Gastric Adenocarcinoma with the Apoptosis-Inducing Human Monoclonal Antibody SC-1: First Clinical and Histopathological Results, Oncology Reports 5:549-552 (1998)				
LLLLR	Vollmers, H.P., et al., Monoclonal Antibodies NORM-1 and NORM-2 Induce More Normal Behavior of Tumor Cells In Vitro and Reduce Tumor Growth In Vivo, Cell, 40:547-557 (1985).				
MMMMR	Vollmers, P., et al., Tumor-Specific Apoptosis Induced by the Human Monoclonal Antibody SC-1: A New Therapeutical Approach for Stomach Cancer, Oncology Reports, 5:35-40 (1998)				
NNNNR	Wixler et al., "Identification of Novel Interaction Partners for the conserved membrane proximal region of alpha-integrin cytoplasmic domains," FEBS Letters vol. 445, 26 Feb 1999.				
OOOOR					
PPPPR					

Examiner	Date Considered:
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</p>	